

Managing Adelaide's beaches

Gleneig to Kingston Park



Government of South Australia
Department for Environment
and Water

In Adelaide we love our beaches. But did you know to keep them sandy for everyone to enjoy we need to manage them?

Sand is a finite resource – it needs to be **shared equitably** along our coastline so residents and visitors can all **enjoy Adelaide's stunning coastline.**



Adelaide's coastline is one connected system with sand naturally moved north by wind and waves. This causes a build-up of sand on some beaches and erosion on other beaches.

Adelaide's beaches have been actively managed for nearly 50 years:

- Sand is moved from where it builds up to areas of erosion.
- Without moving sand, some of our favourite beaches would erode to rock and clay.
- Management of our beaches is based on decades of research, monitoring and international best practice.



Glenelg to Kingston Park



There is a sand pumping system between Glenelg and Kingston Park that keeps our southern metropolitan beaches sandy and preserves the dunes.



Sand pumping uses pumping stations and underground pipelines to transfer a mixture of sand and seawater from beaches where sand is building up, to beaches where sand is eroding.



Underground sand recycling pipelines are used successfully in many places all around the world to keep beaches replenished.

How it works:

- A temporary fenced work area is assembled on the beach either side of Glenelg jetty.
- Sand is collected from the beach by a landplane and moved to the work area.
- Debris is removed from the sand.
- Seawater is mixed with the sand and pumped southward in underground pipelines to discharge locations.
- Waves and tides disperse the sand.
- Wind and waves slowly move the sand northwards maintaining beaches and dunes.

Operational information

- Sand recycling to replenish beaches from Glenelg to Kingston Park is undertaken annually.
- Works commence in May and can run through to October.
- Works can be subject to change depending upon weather conditions, storms and operational requirements.
- Operations do not occur over summer when the beaches are in peak use.
- During operations, beach users are asked to please take extra care on the beaches. Watch out for machinery and adhere to all flagging and signage in place during operations.
- These operations are undertaken by McConnell Dowell on behalf of the Department for Environment and Water.

Operational enquiries

Department for Environment and Water:

Email: DEWCoasts@sa.gov.au Phone: (08) 8124 4928

Booster pump station, Hove
Artist: Elizabeth Close





Glenelg North

Glenelg Marina

Anzac Highway

Glenelg

Jetty Road

Glenelg South

The Broadway

Phillipps Street

Somerton Park

Whyte Street

Harrow Road

Esplanade

Hove

Hulbert Street

Esplanade

Jetty Road
Bindarra Road

Brighton

Oleander Street

Young Street

seacliff

Wheatland Street

Kingston Park

Sand naturally moves northward up the coastline

LEGEND

■ Main pump station

← Sand discharge location

● Combined booster pump station and sand discharge location

∨ Pipeline sand/seawater mixture flow



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Visit the coast website to learn more about managing Adelaide's beaches and to sign up and stay informed about Adelaide beach works.



environment.sa.gov.au/coasts



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